Paul's Online Notes

Section 3.1 : The Definition Of The Derivative - Practice Problems

Use the definition of the derivative to find the derivative of the following functions.

1. $f(x) = 6$ **[Solution]**

2. $V(t) = 3 - 14t$ **[Solution]**

3. $g(x) = x^2$ **[Solution]**

4. $Q(t) = 10 + 5t - t^2$ **[Solution]**

5. $W(z) = 4z^2 - 9z$ **[Solution]**

6. $f(x) = 2x^3 - 1$ **[Solution]**

7. $g(x) = x^3 - 2x^2 + x - 1$ **[Solution]**

8. $R(z) = \dfrac{5}{z}$ **[Solution]**

9. $V(t) = \dfrac{t+1}{t+4}$ **[Solution]**

10. $Z(t) = \sqrt{3t-4}$ **[Solution]**

11. $f(x) = \sqrt{1-9x}$ **[Solution]**

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